

50 SHEETS

ROLLED THREAD DOWEL BAR

The diameter of this part

is the same as the diameter of the bar spliced.

The diameter of this part is equal or larger than the

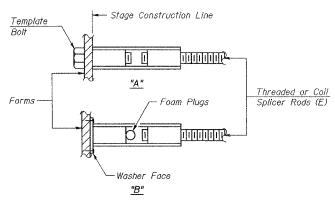
diameter of bar spliced.

\*\* ONE PIECE

WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

\*\* Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



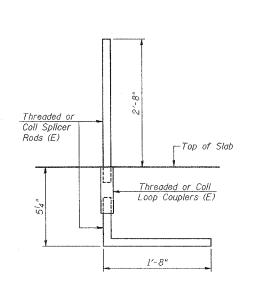
6'-0" 1'-412" Approach slab hatch block Threaded or Coil Threaded or Coll Splicer Rods (E) Loop Couplers (E) Reinforcement bars BAR SPLICER ASSEMBLY DETAIL AT ABUTMENT

Bar Splicer for #5 bar								
Vin.	Capacity	=	23.0	kips	; -	tensi	on	
Vin.	Pull-out	St	rength	=	9.2	kips	-	tension
Vo.	Required	=	68					

# INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt. "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



TYPE I BAR SPLICER ASSEMBLY

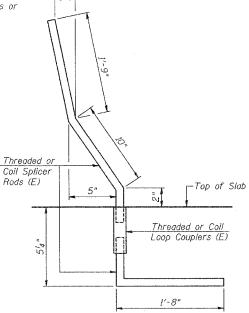
Location

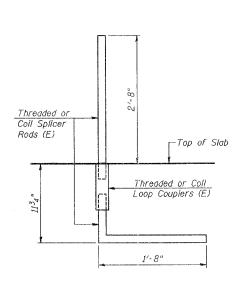
N. Parapet on Bridge, Outside Face

No. Assemblies

Required

Size





### TYPE II BAR SPLICER ASSEMBLY

Bar Size	No. Assemblies Required		Location							
#5	455	N.	Parapet	on	Bridge,	Inside	Face			

# TYPE III BAR SPLICER ASSEMBLY

Bar Size	No. Assemblies Required		Location							
#4	73	N.	Parapet	оn	Approach,	Outside	Face			

# NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for

reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity = 1.25 x fy x A<sub>t</sub>

(Tension in klps) = 1.25 x fy x A<sub>t</sub>

Minimum \*Pull-out Strength = 1.25 x fs<sub>allow</sub> x A<sub>t</sub>

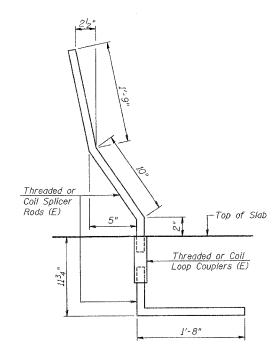
Where fy = Yield strength of lapped reinforcement bars in ksi.

fs<sub>allow</sub>= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)

# = 28 day concrete

BAR SPLICER ASSEMBLIES								
		Strength Requirements						
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension					
#4	1′-8"	14.7	5.9					
#5	2'-0"	23.0	9,2					
#6	2'-7"	33.1	13.3					
#7	3′-5″	45.1	18.0					
#8	4'-6''	58.9	23.6					

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



#### TYPE IV BAR SPLICER ASSEMBLY

Bar Size	No. Assemblies Required		Location							
#5	73	N.	Parapet	on	Approach,	Inside	Face			

Corporate License Number 184-001-084

#### BAR SPLICER ASSEMBLY DETAILS

WESTBOUND HARRISON AVENUE OVER UP & CC&P RAILROAD F.A.P. ROUTE 0525 SECTION 02-00518-00-BR ROCKFORD, ILLINOIS STATION 95+25.35 STRUCTURE NO. 101-6109

